

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	201	(deinterleav\$5 (de adj interleav\$5) de-interleav\$5) same (depunct\$5 de-punct\$5)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/09/26 12:00
L2	13	1 same equalizer	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/09/26 11:54
L3	45	(1 and equalizer) not 2	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/09/26 11:55
L4	201	(deinterleav\$5 (de adj interleav\$5) de-interleav\$5) same (depunct\$5 de-punct\$5 puntu\$5)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/09/26 12:01
L5	437	(deinterleav\$5 (de adj interleav\$5) de-interleav\$5) same (depunct\$5 de-punct\$5 punctu\$5)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/09/26 12:01
L6	62	estimat\$4 same 5	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/09/26 12:29
L7	18	mlse and 5	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/09/26 12:24
L8	0	punctuc\$4 and 7	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/09/26 12:24
L9	18	punctur\$4 and 7	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/09/26 12:24
L10	18	((sequence adj estimat\$4) and 5) not 7	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/09/26 12:50
L11	18	5 same equalizer	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/09/26 12:50

## EAST Search History

L12	88	5 and equalizer	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/09/26 12:50
L13	70	12 not 11	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/09/26 12:50
L14	16	((sequence adj estimat\$4) and 13)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/09/26 12:53
L15	54	13 not 14	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/09/26 12:53
S1	2	"6175551".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/09/22 17:11
S2	15517	ofdm (orthogonal adj frequency adj division)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/09/22 17:11
S3	111	contiguous same S2	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/09/22 17:12
S4	26	non-contiguous same S2	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/09/23 10:10
S5	6	"5056117".pn. "5822143".pn. "5870433".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/09/25 07:56
S6	2	"20030026196".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/09/25 11:47
S7	9	disjoin\$5 adj parameter	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/09/25 11:48
S8	523	orthogonal near3 parameter	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/09/25 12:04

## EAST Search History

S9	8	timing same S8	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/09/25 11:55
S10	21808	(disjoint separate independent orthogonal distinct) near5 parameter	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/09/25 12:07
S11	210036	(composite combin\$4 resultant) near4 signal	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/09/25 13:36
S12	106	S10 same S11	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/09/25 12:03
S13	5	S12 same estimat\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/09/25 12:03
S14	11895	(orthogonal independent) near4 parameter	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/09/25 12:05
S15	646	S14 same estimat\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/09/25 12:05
S16	4	S15 same S11	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/09/25 12:06
S17	6713	estimat\$4 same S11	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/09/25 12:08
S18	180	S10 and S17	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/09/25 12:08
S19	127336	parameter near3 set	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/09/25 12:08
S20	92	S18 and S19	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/09/25 12:08

## EAST Search History

S21	7	("5107520"   "5148448"   "5675288"   "5732333"   "5748678"   "5760646"   "5867065").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/09/25 12:30
S22	21	("6054896").URPN.	USPAT	OR	ON	2006/09/25 13:09
S23	52	S18 not S20	USPAT	OR	ON	2006/09/25 13:13
S24	48800	(composite ) near4 signal	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/09/25 13:37
S25	99	S24 same (estimat\$4 near3 parameter)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/09/25 17:59
S26	4	"6466616".PN. "6775322".PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/09/25 18:36
S27	2461	decision adj feedback adj equalizer	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/09/25 18:56
S28	265	(feedback adj filter) same (feedforward adj filter)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/09/25 18:57
S29	74	S28.clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/09/26 07:17
S30	126	dfse	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/09/26 07:30
S31	0	(deinterleav\$5 de-interleav\$5) same (depunctua\$5 de-punctuat\$5) same decoder	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/09/26 07:34
S32	179	(deinterleav\$5 de-interleav\$5) same (depunct\$5 de-punct\$5) same decod\$5	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/09/26 07:50
S33	39	S32 same estimat\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/09/26 07:55

## EAST Search History

S34	179	(deinterleav\$5 (de adj interleav\$5) de-interleav\$5) same (depunct\$5 de-punct\$5) same decod\$5	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/09/26 11:49
S35	2484	mmse	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/09/26 07:56
S36	214	S35.clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/09/26 07:56

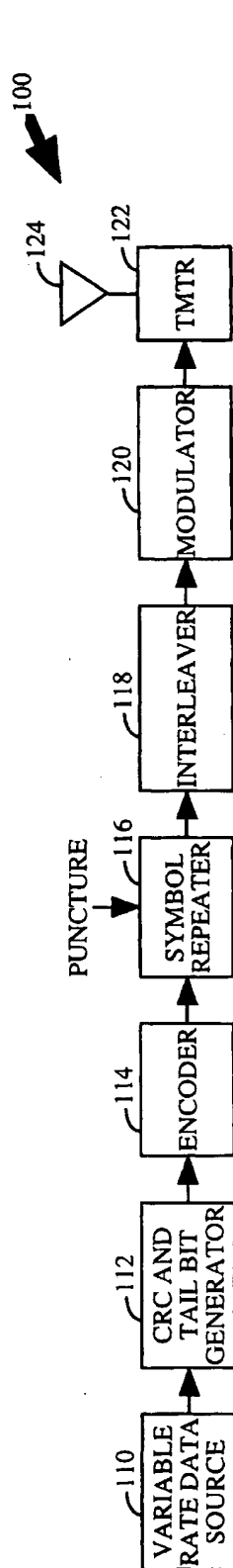


FIG. 1

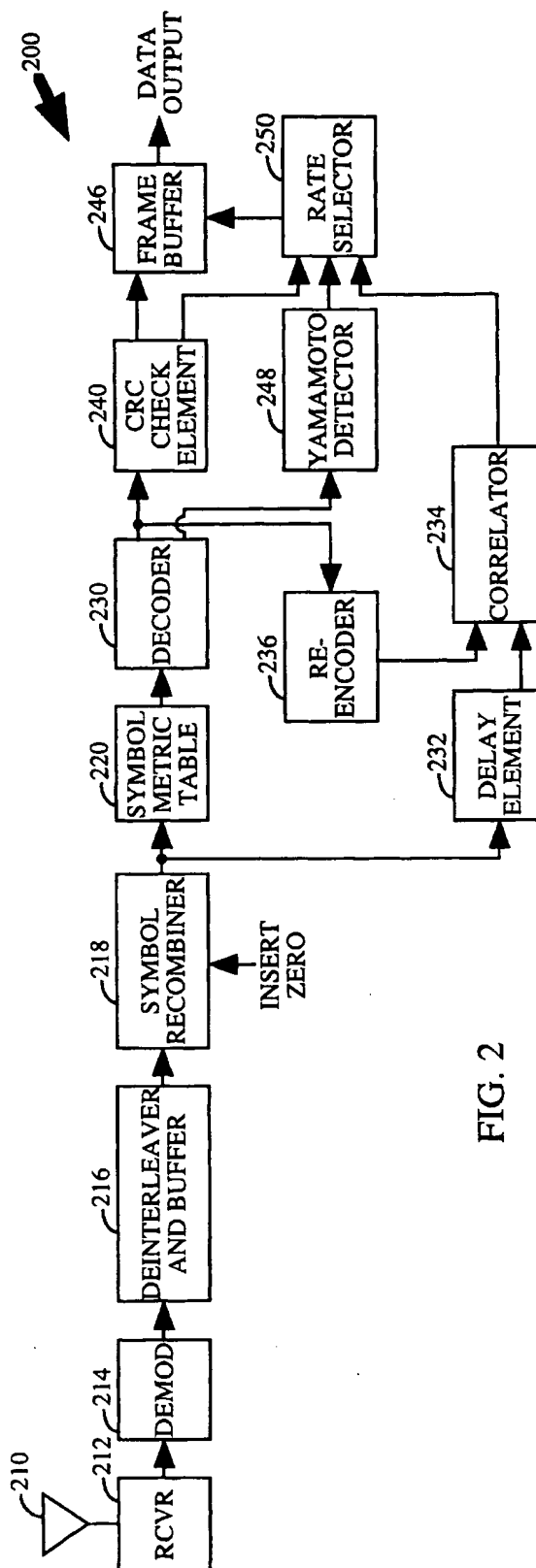


FIG. 2

DOCUMENT-  
IDENTIFIER:

US 20020197987 A1

TITLE:

Transparent data transmission for wireless/cellular  
communication system

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**Detail Description Paragraph - DETX (8):**

[0016] A known thirty-six-symbol synchronization-and-training sequence occurring every forty milliseconds in the resultant output defines frames, and each frame in turn is divided, for reasons shortly to be apparent, into eight 117-symbol subframes. The training pattern is used to train an adaptive equalizer used in the receiver's demodulator to combat frequency-selective fading that can cause intersymbol interference detrimental to quality reception.

**Detail Description Paragraph - DETX (13):**

[0021] Specifically, a receiver 54 and demodulator 56 operate complementarily to FIG. 2's transmitter 40 and modulator 38, respectively, and a de-interleaving operation 58 so reorders the bit stream as to reverse the operation that FIG. 2's block 44 represents. The management information is then stripped out and sent to appropriate management operations 60, and the punctured code words are (at least conceptually) delivered to a fill operation 62, in which values are inserted into the predetermined locations from which bits were removed in FIG. 2's puncturing operation 48. This reconstitutes the punctured words into sequences of the proper code-word size, from which a decoding-and-correcting operation 64 will be able to recover the input that was applied to FIG. 2's convolutional encoder 46, i.e., to recover the G.711 encoder 34's output. So the signal that FIG. 3's decoding-and-correction operation 64 applies to the digital network interface 52 is the same as the G.711 encoder output: it is as though the G.711 output were being applied directly to the interface. So the modem 12's performance is the same as it would have been in the environment for which it was designed.